

SYSTEM AND METHOD FOR CONTROLLING NETWORK TRAFFIC FLOW IN A MULTI-PROCESSOR NETWORK

ABSTRACT

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A system and method for controlling network traffic flow in a multi-processor network is disclosed. The method employs a two-part algorithm to determine when it is appropriate for a client node to transmit data over a network to one or more server nodes. The first part of the algorithm calls for the client node to transmit data over the network after receiving an acknowledgement from one or more of the server nodes to which data transfer is outstanding. The second part of the algorithm provides for the client node transmitting data over the network after a predetermined time interval has elapsed since a data transmission. The time interval is based, in part, on the length of outstanding data packets and a statistical analysis of the number of nodes transmitting or receiving data packets. The transmission of data over the network is accomplished by a hybrid scheme, comprising a combination of PUSH and PULL transmission protocols.